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Histochemistry of Epithelial Mucins in Carcinoma of the Lung.

Grant #639R1

The proposed study will apply a series of modern histochemical techniques for the demonstration of mucins and mucopolysaccharides to a series of cases of adenocarcinoma, and the subgroup bronchiolo-alveolar carcinoma, of the lung. The same techniques will be applied to a series of normal lungs for suitable control material. This information will then be correlated with follow-up data on the patients which is being obtained from the tumor registry of this institution.

An attempt will be made to answer the following questions:

1. What proportion of the cases of this type of pulmonary neoplasm produce mucins or mucopolysaccharides?
2. What variety of mucopolysaccharides is produced?
3. Is the type of mucin or mucopolysaccharides produced homogeneous in a given case and is it the same for tumors of the same histologic type?
4. Do carcinomas produce a mucin qualitatively different from the parent tissue?
5. Is there a correlation between mucin production and clinical course?

Current Grant Level: \$14,885.

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